

What is claimed is:

1. Organic siloxane resins, which are condensed polymers,
manufactured by a hydrolysis and condensation reaction of silane
5 compounds comprising one or more kinds of hydrosilane compounds
under a base catalyst.
2. The organic siloxane resins according to Claim 1, wherein
said silane compounds are comprised of hydrosilane compounds
10 entirely, or of hydrosilane compounds and organic silane
compounds other than said hydrosilane compounds.
3. The organic siloxane resins according to Claim 2, wherein
said hydrosilane compounds are silane compounds having a chemical
15 formula represented by the following Chemical Formula 1,
oligomers manufactured from said silane compounds in said
Chemical Formula 1, oligomers manufactured from said silane
compounds in said Chemical Formula 1, or cyclic siloxane
compounds having a chemical formula represented by the following
20 Chemical Formula 2:

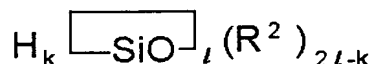
[Chemical Formula 1]



where R^1 is independently fluorine, aryl, vinyl, allyl,
25 or linear or branched C1-4 alkyl substituted or unsubstituted

with fluorine, or alkoxy; and n is an integer of 1 to 3; and

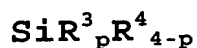
[Chemical Formula 2]



where R^2 is independently fluorine, aryl, vinyl, allyl, or linear or branched C1-4 alkyl substituted or unsubstituted with fluorine, or alkoxy; and k and l are integers of 3 to 10.

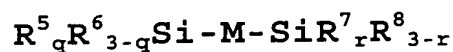
4. The organic silane resins according to Claim 2, wherein said organic silane compounds other than said hydrosilane compounds are silane compounds having a chemical formula represented by the following Chemical Formula 3 or 4:

[Chemical Formula 3]



where R^3 is independently fluorine, aryl, vinyl, allyl, or linear or branched C1-4 alkyl substituted or unsubstituted with fluorine; R^4 is independently acetoxy, hydroxy, or linear or branched C1-4 alkoxy; and p is an integer of 0 to 3; and

[Chemical Formula 4]



where R^5 and R^7 are independently fluorine, aryl, vinyl, allyl, or linear or branched C1-4 alkyl substituted or

unsubstituted with fluorine; R^6 and R^8 are independently acetoxy, hydroxy, or linear or branched C1-4 alkoxy; M is alkylene or phenylene having 1 to 6 carbon atoms; and q and r are integers of 0 to 3.

5 5. Compositions for forming insulating films comprising said organic siloxane resins manufactured according to any of Claims 1 through 4.

6. A method of forming insulating films using organic siloxane
10 resins comprising the steps of:

a) preparing an organic siloxane resin;

b) dissolving the organic siloxane resin in an organic solvent;

c) forming an insulating film by coating a solution, which
15 is prepared by dissolving the above organic siloxane resin in organic solvent; and

d) drying and hardening the insulating film formed in the above.

20 7. The method of forming a insulating film using said organic siloxane resins according to Claim 6, further comprising a step, after the above step b), of adding one or more kinds of additives selected from the group consisting of organic molecules, organic polymers, organic dendrimers, water, pH controlling agents,
25 colloidal silica, and surfactants to said solution.

8. Insulation films using organic siloxane resins manufactured by drying and hardening insulating films formed by coating the solution, which is prepared by dissolving said organic siloxane resins according to any of Claims 1 to 4 in an organic solvent, onto a substrate.

9. Electronic devices comprising insulating films using organic siloxane resins manufactured by drying and hardening of insulating films formed by coating the solution, which is prepared by dissolving said organic siloxane resins according to any of Claims 1 to 4 in an organic solvent, onto a substrate.